

Title (en)
BRIGHT FIELD ILLUMINATION DEVICE

Publication
EP 0243680 B1 19910403 (DE)

Application
EP 87104442 A 19870325

Priority
DE 3613750 A 19860423

Abstract (en)
[origin: EP0243680A1] For the purpose of incident illumination of the object surface of an object (O) to be detected by an image converter (Bw), the object surface is illuminated simultaneously by vertically incident beams (S1) and beams (S2) incident obliquely from all sides in order to obtain an illumination that is uniform and free from glare and shadows. The entire device, by means of which it is possible, in particular, to illuminate tinned structures on printed circuit boards and to detect their position, is preferably constructed as an attachment of the image converter (Bw). <IMAGE>

IPC 1-7
G02B 21/06

IPC 8 full level
G01N 21/88 (2006.01); **G02B 21/06** (2006.01); **G02B 21/08** (2006.01)

CPC (source: EP)
G01N 21/8806 (2013.01); **G02B 21/082** (2013.01)

Cited by
EP0385625A3; EP0459489A3; DE10012043A1; FR2675903A1; US6359694B1; WO9924818A1

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